



## Climate change and the geographic distribution of infectious diseases

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**Author(s):** Rosenthal J  
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### Abstract:

Our ability to predict the effects of climate change on the spread of infectious diseases is in its infancy. Numerous, and in some cases conflicting, predictions have been developed, principally based on models of biological processes or mapping of current and historical disease statistics. Current debates on whether climate change, relative to socioeconomic determinants, will be a major influence on human disease distributions are useful to help identify research needs but are probably artificially polarized. We have at least identified many of the critical geophysical constraints, transport opportunities, biotic requirements for some disease systems, and some of the socioeconomic factors that govern the process of migration and establishment of parasites and pathogens. Furthermore, we are beginning to develop a mechanistic understanding of many of these variables at specific sites. Better predictive understanding will emerge in the coming years from analyses regarding how these variables interact with each other.

**Source:** <http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2904908>

### Resource Description

#### Exposure :

weather or climate related pathway by which climate change affects health

Ecosystem Changes, Precipitation, Temperature

#### Geographic Feature:

resource focuses on specific type of geography

None or Unspecified

#### Geographic Location:

resource focuses on specific location

Global or Unspecified

#### Health Impact:

specification of health effect or disease related to climate change exposure

Infectious Disease

**Infectious Disease:** Airborne Disease, Foodborne/Waterborne Disease, Vectorborne Disease

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**Airborne Disease:** Influenza

**Foodborne/Waterborne Disease:** Other Diarrheal Disease

**Vectorborne Disease:** Mosquito-borne Disease

**Mosquito-borne Disease:** Chikungunya, Rift Valley Fever, West Nile Virus

**Mitigation/Adaptation:** 

mitigation or adaptation strategy is a focus of resource

Adaptation

**Population of Concern:** A focus of content

**Population of Concern:** 

populations at particular risk or vulnerability to climate change impacts

Children, Low Socioeconomic Status

**Resource Type:** 

format or standard characteristic of resource

Policy/Opinion

**Timescale:** 

time period studied

Time Scale Unspecified